

5/14/2018

[Dart Hawkesbury] Job Sheet - Gagnon-Donovan, Michelle



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.4001

Job Sheet 177508



Part No: 646.4001

Job Qty: 1 ea

Part Name: AS350 Cable Cutter System



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/14/18

Job Tracking No:

Due Date: 6/15/18

Created By: Michelle Gagnon-Donovan

Type: SOLD

Description:

Note: DWG REV C1 IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM IPP REV:B 15.01.08 AS PER DWG REV.B
DD VERF:JLM IPP REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	6/15/18	6/15/18	0.00	0.00	Start Up Stores/Pkg-1		MAY 29 2018
110	Packaging	1 pcs	6/15/18	6/15/18	0.00	0.00	Packaging1-1		
120	QC	1 pcs	6/15/18	6/15/18	0.00	0.00	QC4		
125	DC	1 pcs	6/15/18	6/15/18	0.00	0.00	DC		
130	Packaging	1 pcs	6/15/18	6/15/18	0.00	0.00	Packaging3-1		
140	QC21-FG	1 Ea	6/15/18	6/15/18	0.00	0.00	QC21		

Part Op 125 - Photocopy bluefile & type labels per PPP 646.4001

Descriptions: 130 - Identify and pack for shipping as per PPP 646.4001 Location: Fg101

Job BOM

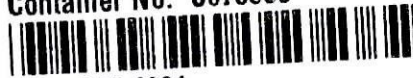
Part / Item	Component Name	Quantity	Operation	Container
600.0129	VHB Tape	8 ft (8 ea)	90-Start up Operation	5831229
600.0990	Magnabond 6398 Part A Size 112 ml	1 Ea (1 ea)	90-Start up Operation	
600.0991	Magnabond 6398 Part B Size 112 ml	1 Ea (1 ea)	90-Start up Operation	
600.1012	Sealant PR1425B2 (#654 sem)	1 pcs (1 ea)	90-Start up Operation	5054401
600.1013	021200-3M Tape Primer 94 Primer 24216	5 Ea (5 ea)	90-Start up Operation	5066785
646.2910	Deflector	1 Ea (1 ea)	90-Start up Operation	
646.3001	Lower Cable Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	
646.3110	Channel	1 Ea (1 ea)	90-Start up Operation	50590536
646.3210	Support	1 Ea (1 ea)	90-Start up Operation	
646.3301	Upper Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	5070926
646.3510	Strut	1 Ea (1 ea)	90-Start up Operation	5036174
646.3511	Strut	1 Ea (1 ea)	90-Start up Operation	5050455
646.3610	Filler	1 Ea (1 ea)	90-Start up Operation	5043574
646.3710	Doubler	1 Ea (1 ea)	90-Start up Operation	5002101
646.3711	Clip	1 Ea (1 ea)	90-Start up Operation	5038499
646.3712	Clip	1 Ea (1 ea)	90-Start up Operation	5050422
646.3713	Gusset	1 Ea (1 ea)	90-Start up Operation	5042039
646.3714	Gusset	1 Ea (1 ea)	90-Start up Operation	5038499
646.3715	Strut Doubler	2 Ea (2 ea)	90-Start up Operation	5036908
646.3716	Gauge Bracket	1 Ea (1 ea)	90-Start up Operation	5039275
646.3717	Doubler	1 Ea (1 ea)	90-Start up Operation	5026842

Plex 5/14/18 11:37 AM Dart.Gagnon.Michelle



Dart Aerospace Ltd.
1270 Aberdeen Street
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CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
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Container No: S075933



Part: 646.4001

Job No: 177508

Serial No/Batch: S075933

Revision:

Inspector:

Date: 05/29/18

5/14/18

[Dart Hawkesbury] Job Sheet - Gagnon-Donovan, Michelle

646.3718	Custom Washer	2 Ea (2 ea)	90-Start up Operation	5038803
646.3719	Doubler	2 Ea (2 ea)	90-Start up Operation	5061543
646.3810	Bracket	2 Ea (2 ea)	90-Start up Operation	5067910
646.3811	Radius Block	1 Ea (1 ea)	90-Start up Operation	5057883
646.3812	Gusset Bracket	2 Ea (2 ea)	90-Start up Operation	
646.3813	AS350 Strut Bracket	1 Ea (1 ea)	90-Start up Operation	
646.3910	Shim	4 Ea (4 ea)	90-Start up Operation	5038811x1
646.3911	Shim	1 Ea (1 ea)	90-Start up Operation	
646.3912	Shim	4 Ea (4 ea)	90-Start up Operation	
646.3913	Shim	1 Ea (1 ea)	90-Start up Operation	
646.9410	Shim	1 Ea (1 ea)	90-Start up Operation	
647.0112	Strut Bracket	2 Ea (2 ea)	90-Start up Operation	5050462x1 5227462x1
647.7703	Strut Assembly	2 Ea (2 ea)	90-Start up Operation	5065469
650.9201	Eyelet Bracket Assembly	2 Ea (2 ea)	90-Start up Operation	
AN3-11A	Bolt	10 Ea (10 ea)	90-Start up Operation	
AN3-12A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN3-13A	Bolt	1 Ea (1 ea)	90-Start up Operation	
AN3-3A	Bolt	4 Ea (4 ea)	90-Start up Operation	
AN3-4A	Bolt	10 Ea (10 ea)	90-Start up Operation	
AN3-5A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN3-6A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN316C4R	Nut, Jam	2 Ea (2 ea)	90-Start up Operation	
AN44-5A	Eyebolt	2 Ea (2 ea)	90-Start up Operation	
AN4C7A	Bolt	2 Ea (2 ea)	90-Start up Operation	5041
AN665-34R	Clevis	2 Ea (2 ea)	90-Start up Operation	
CCR264SS3-02	Cherry Rivet	36 Ea (36 ea)	90-Start up Operation	5041159x5 50
CR3213-5-3	Cherry Rivet	14 Ea (14 ea)	90-Start up Operation	
MS20426AD5-7	Rivet	2 Ea (2 ea)	90-Start up Operation	
MS20470AD5-5.5	Rivet	8 Ea (8 ea)	90-Start up Operation	
MS20470AD5-6	Rivet	8 Ea (8 ea)	90-Start up Operation	
MS20470AD5-7	Rivet	3 Ea (3 ea)	90-Start up Operation	
MS21042L08	Nut	2 Ea (2 ea)	90-Start up Operation	
MS21042L3	Nut	63 Ea (63 ea)	90-Start up Operation	
MS21042L4	Nut	2 Ea (2 ea)	90-Start up Operation	
MS21047-3	Nut Plate	18 Ea (18 ea)	90-Start up Operation	
MS24693-C278	Screw	5 Ea (5 ea)	90-Start up Operation	
MS24694-S51	Screw	5 Ea (5 ea)	90-Start up Operation	
MS24694-S54	Screw	2 Ea (2 ea)	90-Start up Operation	
MS24694-S55	Screw	3 Ea (3 ea)	90-Start up Operation	
MS27039-08-13	Screw	2 Ea (2 ea)	90-Start up Operation	
MS27039-1-10	Screw	2 Ea (2 ea)	90-Start up Operation	
MS27039-1-12	Screw	6 Ea (6 ea)	90-Start up Operation	
MS27039-1-16	Screw	24 Ea (24 ea)	90-Start up Operation	
MS27039-1-19	Screw	22 Ea (22 ea)	90-Start up Operation	
MS27039-1-20	Screw	2 Ea (2 ea)	90-Start up Operation	
MS27039-1-21	Screw	4 Ea (4 ea)	90-Start up Operation	
NAS1149F0332P	Washer	144 Ea (144 ea)	90-Start up Operation	
NAS1149F0363P	Washer	2 Ea (2 ea)	90-Start up Operation	
NAS1149F0432P	Washer	4 Ea (4 ea)	90-Start up Operation	
NAS1149FN832P	Washer	4 Ea (4 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	600.0129	8	376	0
	600.0990	1	14	0
	600.0991	1	13	0
	600.1012	1	21	0
	600.1013	5	104	0
	646.2910	1	15	0
	646.3001	1	0	0
	646.3110	1	15	0
	646.3210	1	14	0
	646.3301	1	10	0

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646.3510	1	19	0
646.3511	1	24	0
646.3610	1	12	0
646.3710	1	60	0
646.3711	1	40	0
646.3712	1	34	0
646.3713	1	27	0
646.3714	1	33	0
646.3715	2	34	0
646.3716	1	52	0
646.3717	1	24	0
646.3718	2	68	0
646.3719	2	56	0
646.3810	2	29	0
646.3811	1	43	0
646.3812	2	22	0
646.3813	1	11	0
646.3910	4	55	0
646.3911	1	37	0
646.3912	4	30	0
646.3913	1	51	0
646.9410	1	115	0
647.0112	2	116	0
647.7703	2	21	0
650.9201	2	11	0
AN3-11A	10	149	0
AN3-12A	2	68	0
AN3-13A	1	44	0
AN3-3A	4	791	0
AN3-4A	10	392	0
AN3-5A	2	256	0
AN3-6A	2	208	0
AN316C4R	2	31	0
AN44-5A	2	37	0
AN4C7A	2	69	0
AN665-34R	2	40	0
CCR264SS3-02	36	218	0
CR3213-5-3	14	108	0
MS20426AD5-7	2	1,151	0
MS20470AD5-5.5	8	317	0
MS20470AD5-6	8	1,102	0
MS20470AD5-7	3	176	0
MS21042L08	2	1,991	0
MS21042L3	63	1,806	0
MS21042L4	2	3,013	0
MS21047-3	18	276	0
MS24693-C278	5	215	0
MS24694-S51	5	229	0
MS24694-S54	2	97	0
MS24694-S55	3	128	0
MS27039-08-13	2	381	0
MS27039-1-10	2	175	0
MS27039-1-12	6	243	0
MS27039-1-16	24	420	0
MS27039-1-19	22	298	0
MS27039-1-20	2	49	0
MS27039-1-21	4	70	0
NAS1149F0332P	144	2,902	0
NAS1149F0363P	2	217	0
NAS1149F0432P	4	1,599	0
NAS1149FN832P	4	2,362	0

Part Specifications

Specifications could not be found.

Plex 5/14/18 11:37 AM Dart.Gagnon.Michelle



Dart Aerospace Ltd.
1270 Aberdeen St
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Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
003499	S075931	600.0129	VHB Tape	S031229	CCK096	8
003499	S075930	600.0090	Magnabond 6398 Part A Size 112 ml	S055889	PKG	1
003499	S075929	600.0091	Magnabond 6398 Part B Size 112 ml	S055890	PKG	1
003499	S075928	600.1012	Sealant PR1425B2 (#654 sem)	S074966	ST123	1
003499	S075927	600.1013	021200-3M Tape Primer 94 Primer 24216	S066985	CCK096	5
003499	S074950	646.3001	Lower Cable Cutter Assembly	S075063	CCK023	1
003499	S075926	646.3110	Channel	S059056	CCK020	1
003499	S070926	646.3301	Upper Cutter Assembly	S063230	CCK018	1
003499	S075925	646.3510	Strut	S036174	CCK103	1
003499	S050455	646.3511	Strut	S051325	CCK103	1
003499	S075924	646.3610	Filler	S043544	CCK103	1
003499	S002104	646.3710	Doubler	S002103	CCK006	1
003499	S075923	646.3711	Clip	S038799	CCK104	1
003499	S050422	646.3712	Clip	S050421	CCK104	1
003499	S075922	646.3713	Gusset	S042029	CCK104	1
003499	S075921	646.3714	Gusset	S038824	CCK104	1
003499	S075920	646.3715	Strut Doubler	S035990	CCK105	2
003499	S075919	646.3716	Gauge Bracket	S039275	CCK105	1
003499	S075918	646.3717	Doubler	S026842	CCK105	1
003499	S075917	646.3718	Custom Washer	S038803	CCK105	2
003499	S075916	646.3719	Doubler	S061543	CCK105	2
003499	S075915	646.3810	Bracket	S067214	CCK105	2
003499	S075914	646.3811	Radius Block	S057883	CCK105	1
003499	S075910	646.3812	Gusset Bracket	S067236	CCK105	2
003499	S075909	646.3813	AS350 Strut Bracket	S037064	CCK106	1
003499	S075908	646.3910	Shim	S065272	CCK105	4
003499	S075907	646.3911	Shim	S041250	CCK105	1
003499	S075906	646.3913	Shim	F126060	CCK106	1
003499	S075905	646.9410	Shim	F140671	CCK011	1
003499	S000850	647.0112	Strut Bracket	S000011	CCK106	1
003499	S050462	647.0112	Strut Bracket	S050471	CCK106	1
003499	S065469	647.7703	Strut Assembly	S036563	CCK114	2
003499	S071276	650.9201	Eyelet Bracket Assembly	S073194	CCK127	2
003499	S075904	AN3-11A	Bolt	S027721	ST349	10
003499	S075903	AN3-12A	Bolt	S048376	ST349	2
003499	S075902	AN3-13A	Bolt	S038733	ST349	1
003499	S075901	AN3-3A	Bolt	S058129	ST350	4
003499	S075900	AN3-4A	Bolt	S060063	ST350	10
003499	S075899	AN3-5A	Bolt	S041106-1	FP001	2
003499	S075898	AN3-6A	Bolt	S048402	ST350	2
003499	S075897	AN316C4R	Nut, Jam	S056384	ST331	2
003499	S075896	AN44-5A	Eyebolt	S065262	ST339	2
003499	S075895	AN4C7A	Bolt	S027516	ST345	2
003499	S075894	AN665-34R	Clevis	S014161	ST331	2
003499	S041159	CCR264SS3-02	Cherry Rivet		ST321	5
003499	S075893	CCR264SS3-02	Cherry Rivet	S071733	ST321	31
003499	S075892	CR3213-5-3	Cherry Rivet	S074204	ST319	14
003499	S075891	MS20426AD5-7	Rivet	F153848	ST311	2
003499	S075889	MS20470AD5-5.5	Rivet	Fm134063	ST309	8

S07401

S038811

x3

x3

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
003499	S075888	MS20470AD5-6	Rivet	f124089	ST309	8
003499	S075887	MS20470AD5-7	Rivet	f123425	ST309	3
003499	S075886	MS21042L08	Nut	s044234	ST303	2
003499	S075885	MS21042L3	Nut	s075328	ST303	63
003499	S075884	MS21042L4	Nut	s056039	ST303	2
003499	S075883	MS21047-3	Nut Plate	s020620	ST301	18
003499	S075882	MS24693-C278	Screw	s065341	ST287	5
003499	S075881	MS24694-S51	Screw	s004859	ST284	5
003499	S075880	MS24694-S54	Screw	s024480	ST284	2
003499	S075879	MS24694-S55	Screw	s050050	ST283	3
003499	S075878	MS27039-08-13	Screw	s019320-1	ST278	2
003499	S075876	MS27039-1-10	Screw	s061228	ST280	2
003499	S075875	MS27039-1-12	Screw	s049832	ST280	6
003499	S075874	MS27039-1-16	Screw	s049833	ST280	24
003499	S075873	MS27039-1-19	Screw	s065263	ST280	22
003499	S075872	MS27039-1-20	Screw	s000680	ST280	2
003499	S075871	MS27039-1-21	Screw	s037684	ST280	4
003499	S075870	NAS1149F0332P	Washer	s068663	ST262	144
003499	S075869	NAS1149F0363P	Washer	s027738	ST262	2
003499	S075868	NAS1149F0432P	Washer	s050055	ST262	4
003499	S075867	NAS1149FN832P	Washer	s020604	ST263	4

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 5/29/18 4:16 PM dart.quirion.sonia

646. 2910 x1 5069573
 646. 3210 x1 5065343
~~646. 3912 x4~~

.6155

Linda Lacelle

Tue 2018-06-05 9:13 AM

Re: Sonia Quirion <squirion@dartaero.com>; Shipping <shipping@dartaero.com>;

Re: Eric Downing <edowning@dartaero.com>;

Per Lewis – pls remove all adhesives for 3 x 646.4001, 3 x 646.4002

Merci

Eric- when I receive this, who do I give it to???

To: Linda Lacelle <llacelle@dartaero.com>

Cc: Jason Leroux <jleroux@dartaero.com>; Marie Lajeunesse <mlajeunesse@dartaero.com>; David Logan <dlogan@dartaero.com>

Subject: RE: AS350 CCK

Yes please remove from all.

For 4045 I thought these were ready for 25/5 per your email on May 9th below?

Best regards,

Lewis Brooks

Account Manager - EMEA



DART AEROSPACE

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E lbrooks@dartaero.com

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From: Linda Lacelle

Sent: Friday, May 25, 2018 1:52 PM

To: Lewis Brooks <lbrooks@dartaero.com>

Cc: Jason Leroux <jleroux@dartaero.com>; Marie Lajeunesse <mlajeunesse@dartaero.com>; David Logan <dlogan@dartaero.com>

Subject: RE: AS350 CCK

4045 and 6155 are due to ship on June 6 – still on schedule

4120 – will be ready after lunch

Do we remove the adhesive in all of these orders?

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :	Step #:	QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation		Disposition				Completed By	
						Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐	

Sylvie Larocque

From: Linda Lacelle
Sent: Tuesday, June 05, 2018 8:35 AM
To: Lewis Brooks; Sonia Quirion; Chantal Chartrand; Eric Downing
Cc: Kinga Lysiak; Jason Leroux; Sylvie Larocque
Subject: RE: Purchase Order N° 20180126 ORDER 6155

Chantal,
Please add 8 x 646.3912 to order 6155 (N/C, as they will ship at a later date – June 8)

Sonia,
Svp enlever les 646.3912 sur 2 x 646.4001

Eric - FYI

From: Lewis Brooks
Sent: Tuesday, June 5, 2018 8:02 AM
To: Linda Lacelle <llacelle@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jason Leroux <jleroux@dartaero.com>
Subject: RE: Purchase Order N° 20180126 ORDER 6155

No this one isn't but 4045 is missing payment.

Kinga could you ask Sandra at Heliportugal to arrange the pickup?

Best regards,

Lewis Brooks
Account Manager - EMEA



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M +44 (0) 7447 811 810
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From: Linda Lacelle
Sent: Tuesday, June 05, 2018 12:57 PM
To: Lewis Brooks <lbrooks@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jason Leroux <jleroux@dartaero.com>
Subject: RE: Purchase Order N° 20180126 ORDER 6155

Absolutely!! I understand this is still waiting for \$\$??

From: Lewis Brooks
Sent: Tuesday, June 5, 2018 7:51 AM
To: Linda Lacelle <lacelle@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jason Leroux <jleroux@dartaero.com>
Subject: RE: Purchase Order N° 20180126 ORDER 6155

Hi Linda,

Can we send everything we have today and then cover the cost of shipping the missing bit?

Best regards,

Lewis Brooks
Account Manager - EMEA



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M +44 (0) 7447 811 810
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From: Linda Lacelle
Sent: Monday, June 04, 2018 7:04 PM
To: Kinga Lysiak <klysiak@dartaero.com>; Jason Leroux <jleroux@dartaero.com>
Cc: Lewis Brooks <lbrooks@dartaero.com>
Subject: Re: Purchase Order N° 20180126 ORDER 6155

Kinga,
everything is ready (In Pkg..but still missing 1 part (Lewis is aware) - they are supposed to be back by Friday, June 8, but we are trying to get them back sooner.

L

From: Kinga Lysiak
Sent: Monday, June 4, 2018 6:15:15 AM
To: Jason Leroux
Cc: Linda Lacelle; Lewis Brooks
Subject: FW: Purchase Order N° 20180126 ORDER 6155

Hello Jason,

Could you please let me know if order 6155 will be ready on the 6/6
The customer is urgent and chasing

REFERENCE ONLY

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- NOTES:
1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
 2. INSTALL F/N 14 WITH F/N 52 & 53.
 3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.
 4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
 5. REUSE FASTENERS FROM F/N 1.
 6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
 7. AT CUSTOMER'S OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
 8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
 9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

5	5	5	78	601.3875	SCREW	APCAL INDUSTRIES
1	1	1	77	646.9410	SHIM	APCAL INDUSTRIES
	4	4	76	601.2764	WASHER	APCAL INDUSTRIES
	2	2	75	601.2973	LOCKNUT	APCAL INDUSTRIES
	2	2	74	601.2988	SCREW	APCAL INDUSTRIES
	2	2	73	601.2943	LOCKNUT	APCAL INDUSTRIES
	2	2	72	601.3128	NUT	APCAL INDUSTRIES
	2	2	71	601.3209	LOCKNUT	APCAL INDUSTRIES
	4	4	70	601.2638	WASHER	APCAL INDUSTRIES
	2	2	69	601.2669	BOLT	APCAL INDUSTRIES
	2	2	68	601.3119	CLEVIS	APCAL INDUSTRIES
	2	2	67	601.3121	EYE BOLT	APCAL INDUSTRIES
	2	2	66	650.9201	EYE BRACKET ASSY	APCAL INDUSTRIES
	REF	REF	65	647.5701	GPS MOUNT KIT	APCAL INDUSTRIES
		2	64	601.3151	WASHER	APCAL INDUSTRIES
		2	63	601.2911	SCREW	APCAL INDUSTRIES
	24	24	62	601.2637	SCREW	APCAL INDUSTRIES
2	2	2	61	601.2763	BOLT	APCAL INDUSTRIES
	1	1	60	646.3913	SHIM	APCAL INDUSTRIES
	4	4	59	646.3912	SHIM	APCAL INDUSTRIES
	1	1	58	646.3911	SHIM	APCAL INDUSTRIES
	4	4	57	646.3910	SHIM	APCAL INDUSTRIES
	5	5	56	600.1013	PRIMER	APCAL INDUSTRIES
	8 FT	8 FT	55	600.0129	VHB TAPE	APCAL INDUSTRIES
	1	1	54	600.1012	SEALANT	APCAL INDUSTRIES
	1	1	53	600.0991	MAGNOBOND 6398 PART B	APCAL INDUSTRIES
	1	1	52	600.0990	MAGNOBOND 6398 PART A	APCAL INDUSTRIES
6	10	10	51	601.2826	BOLT	APCAL INDUSTRIES
		2	50	646.3814	WIPER BRACKET	APCAL INDUSTRIES
		2	49	601.2910	SCREW	APCAL INDUSTRIES
	2	2	48	601.1365	SCREW	APCAL INDUSTRIES
	2	2	47	646.3719	DOUBLER	APCAL INDUSTRIES
	2	2	46	646.3718	CUSTOM WASHER	APCAL INDUSTRIES
	1	1	45	646.3717	DOUBLER	APCAL INDUSTRIES
	22	2	44	601.1948	SCREW	APCAL INDUSTRIES
	2	2	43	601.1952	SCREW	APCAL INDUSTRIES
	4	4	42	601.1956	SCREW	APCAL INDUSTRIES
4026	4025	4024	4023	4022	4021	4020
FIND #	PART #	DESCRIPTION	MATL	SPEC.		

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 02199, 02201, 02216 & 02245	07/08/2010	P. BRAVO
B	INCORPORATED ECN 02048, 02079 & 04751	11/04/2014	P. BRAVO
C	INCORPORATED ECN 02028	01/09/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694S54		
		2		2	40	601.2831	RIVET	MS20436ADS-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2			2	37	646.3715	STRUT DOUBLER			
	2	2		2	36	601.2824	BOLT	ANS-5A		
12	36			36	35	601.2277	RIVET	CCR0468-3-02		
6	18			18	34	600.0795	NUTPLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS20470ADS-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	ANS-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
6	6			6	29	601.2564	RIVET	MS20470ADS-6		
1	1			1	28	646.3714	GUSSET			
	1			1	27	646.3610	FILLER			
	3			3	26	601.2830	SCREW	MS24694S55		
	2			2	25	601.2825	BOLT	ANS-5A		
	1			1	24	646.3811	RADIUS BLOCK			
	1			1	23	646.3712	CLIP			
	1			1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS20470ADS-5		
14	14			14	20	601.2020	RIVET	CR3213-5-3		
4	6	4	6	10	19	601.2823	BOLT	ANS-4A		
	1			1	18	601.2827	BOLT	ANS-13A		
	5			5	17	601.2912	SCREW	MS24694S51		
	1			1	16	646.3713	GUSSET			
	1			1	15	646.3210	SUPPORT			
				1	14	646.3710	DOUBLER			
	1			1	13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042-3	
16	32	18	120	16	144	11	601.1607	WASHER	MS11490Q33P	
				1	10	646.3410	LH WIPER DEFLECTOR			
				1	9	646.3411	RH WIPER DEFLECTOR			
		2		2	8	647.7703	STRUT ASSY			
		2		2	7	647.0112	STRUT BRACKET			
	1			1	6	646.3511	STRUT			
	1			1	5	646.3510	STRUT			
2		2		2	4	646.3810	BRACKET			
		1		1	3	646.2910	DEFLECTOR			
	1			1	2	646.3001	LOWER CUTTER ASSY			
		1		1	1	646.3301	UPPER CUTTER ASSY			
X						646.4006	LOWER CUTTER FIXED PROVISIONS			
	X					646.4005	LOWER CUTTER REMOVABLE PROVISIONS			
		X				646.4004	FIXED PROVISIONS KIT			
			X			646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS			
				X		646.4002	AS350 WIPER DEFLECTOR KIT			
					X	646.4001	AS350 CABLE CUTTERS KIT			
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY	NEXT ASSY (S)	ORIGINAL DATE 08-22-08	3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300	
		DESIGNED BY S. HURF		
		DRAWING APPROVAL P. BRAVO		
		CONTRACT NO.		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 1/32 1/64 1/8 1/4 3/8 1/2 3/4 1 1 1/2 2 3 4 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466 468 470 472 474 476 478 480 482 484 486 488 490 492 494 496 498 500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000		
		SCALE	NONE	
		SHEET	1 OF 5	